

ATTACHMENT

**Currently Pending Claims 1-6 from Ser. No. 09/928,883**

1. A heat transfer element comprising a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide ( $\text{Co}_2\text{O}_3$ ), 0.5-1.0 %;
- (2) Boron Oxide ( $\text{B}_2\text{O}_3$ ), 1.0-2.0 %;
- (3) Calcium Dichromate ( $\text{CaCr}_2\text{O}_7$ ), 1.0-2.0 %;
- (4) Magnesium Dichromate ( $\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$ ), 10.0-20.0 %;
- (5) Potassium Dichromate ( $\text{K}_2\text{Cr}_2\text{O}_7$ ), 40.0-80.0 %;
- (6) Sodium Dichromate ( $\text{Na}_2\text{Cr}_2\text{O}_7$ ), 10.0-20.0 %;
- (7) Beryllium Oxide ( $\text{BeO}$ ), 0.05-0.10 %;
- (8) Titanium Diboride ( $\text{TiB}_2$ ), 0.5-1.0 %;
- (9) Potassium Peroxide ( $\text{K}_2\text{O}_2$ ), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate ( $\text{MCr}_2\text{O}_7$ ), 5.0-10.0 %;

where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;

- (11) Strontium Chromate ( $\text{SrCrO}_4$ ), 0.5-1.0 %; and
- (12) Silver Dichromate ( $\text{Ag}_2\text{Cr}_2\text{O}_7$ ), 0.5%-1.0 %;

the heat transfer medium is positioned on a substrate.

2. A heat transfer element according to claim 1, wherein the weight percentages in the heat transfer product are:

- (1) Cobaltic Oxide ( $\text{Co}_2\text{O}_3$ ), 0.7-0.8 %;
- (2) Boron Oxide ( $\text{B}_2\text{O}_3$ ), 1.4-1.6 %;
- (3) Calcium Dichromate ( $\text{CaCr}_2\text{O}_7$ ), 1.4-1.6 %;
- (4) Magnesium Dichromate ( $\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$ ), 14.0-16.0 %;
- (5) Potassium Dichromate ( $\text{K}_2\text{Cr}_2\text{O}_7$ ), 56.0-64.0 %;
- (6) Sodium Dichromate ( $\text{Na}_2\text{Cr}_2\text{O}_7$ ), 14.0-16.0 %;
- (7) Beryllium Oxide ( $\text{BeO}$ ), 0.07-0.08 %;
- (8) Titanium Diboride ( $\text{TiB}_2$ ), 0.7-0.8 %;
- (9) Potassium Peroxide ( $\text{K}_2\text{O}_2$ ), 0.07-0.08 %;
- (10) A selected metal or Ammonium Dichromate ( $\text{MCr}_2\text{O}_7$ ), 7.0-8.0 %; where

"M" is selected from the group consisting of potassium, sodium, silver, and ammonium;

- (11) Strontium Chromate ( $\text{SrCrO}_4$ ), 0.7-0.8 %; and
- (12) Silver Dichromate ( $\text{Ag}_2\text{Cr}_2\text{O}_7$ ), 0.7-0.8 %.

3. A heat transfer element according to claim 1, wherein the weight percentages in the heat transfer medium product are:

- (1) Cobaltic Oxide ( $\text{Co}_2\text{O}_3$ ), 0.723 %;
  - (2) Boron Oxide ( $\text{B}_2\text{O}_3$ ), 1.4472 %;
  - (3) Calcium Dichromate ( $\text{CaCr}_2\text{O}_7$ ), 1.4472 %;
  - (4) Magnesium Dichromate ( $\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$ ), 14.472 %;
  - (5) Potassium Dichromate ( $\text{K}_2\text{Cr}_2\text{O}_7$ ), 57.888 %;
  - Sodium Dichromate ( $\text{Na}_2\text{Cr}_2\text{O}_7$ ), 14.472 %;
  - Beryllium Oxide ( $\text{BeO}$ ), 0.0723 %;
  - (8) Titanium Diboride ( $\text{TiB}_2$ ), 0.723 %;
  - (9) Potassium Peroxide ( $\text{K}_2\text{O}_2$ ), 0.0723 %;
  - (10) (10) A selected metal or Ammonium Dichromate ( $\text{MCr}_2\text{O}_7$ ), 7.23 %;
- where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate ( $\text{SrCrO}_4$ ), 0.723 %; and
  - (12) Silver Dichromate ( $\text{Ag}_2\text{Cr}_2\text{O}_7$ ), 0.723 %.

4. A heat transfer element according to claim 1, wherein the heat transfer element is a heating element.

5. A heat transfer element according to claim 1, wherein the heat transfer element is a heat-dissipating element.

6. A heat transfer element according to according to claim 1, wherein the heat transfer element is a heat exchange element.